



533 Rec'd PCT/PTO 13 SEP 2001

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN THE APPLICATION OF:
OMOI AYO O. FAMODU

CASE NO.: BB1270 US PCT

APPLICATION NO.: 09 831,683

GROUP ART UNIT: UNKNOWN

FILED: MAY 10, 2001

EXAMINER: UNKNOWN

FOR: PLANT AMINOACYL-TRNA SYNTHETASES

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner for Patents
Washington, D.C. 20231

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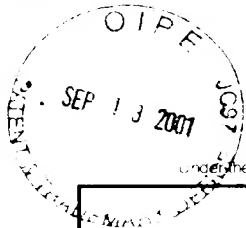
In compliance with 37 CFR 1.97 and 1.98, Applicants bring to the attention of the U.S. Patent and Trademark Office information listed on the enclosed PTO SB 08. A copy of the information is also enclosed. Also attached is a copy of an International Search Report from a corresponding foreign application and copies of those references cited therein.

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Respectfully submitted,

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ENCL.



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APPLICATION NO: 09/831,683
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

1

of

1

Application Number

Complete if Known

09 831.683

Filing Date

May 10, 2001

First Named Inventor:

Omolayo O. Famodu

Group Art Unit

Unknown

Examiner Name

Unknown

Attorney Docket Number

BB1270 US PCT

U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines Where Relevant Passages or Relevant Figures Appear	T.
		Office ¹	Number	Kind Code ² (if known)				
		Europe	0 835 936	A2	Smithkline Beecham PLC	04-15-1998		
		World	97/38718	A1	Smithkline Beecham Corporation & Smithkline Beecham PLC	10-23-1997		
		Europe	0 785 261	A1	Smithkline Beecham PLC	07-23-1997		

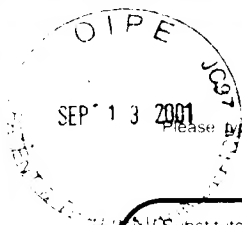
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known	
		Application Number	09 831.683
		Filing Date	May 10, 2001
		First Named Inventor	Omolayo O. Famodu
		Group Art Unit	Unknown
		Examiner Name	Unknown
Sheet 1 of 3	Attorney Docket Number	BB1270 US PCT	

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No.	Include name of the author (in CAPITAL LETTERS); title of the article (when appropriate); title of the item (book, magazine, journal, serial, symposium, catalog, etc.); date; page(s); volume-issue number(s); publisher; city and/or country where published.	T
		EMBL SEQUENCE DATA LIBRARY ACCESSION NO. D23310, 12-02-1993, T. SASAKI ET AL., Rice cDNA from callus	✓
		EMBL SEQUENCE DATA LIBRARY ACCESSION NO. D16052, 05-17-1993, T. SASAKI ET AL., Rice cDNA from callus	✓
		EMBL SEQUENCE DATA LIBRARY ACCESSION NO. 83523, 12-21-1994, R. V. ANDERSEN	✓
		EMBL SEQUENCE DATA LIBRARY ACCESSION NO. C27100, 08-06-1997, T. SASAKI ET AL., Rice cDNA from callus	✓
		EMBL SEQUENCE DATA LIBRARY ACCESSION NO. 83524, 12-21-1994, R. V. ANDERSEN	✓
		KATHLEEN I. RACHER ET AL., J. Biol. Chem., vol. 266(26), 17153-17164, 1991, Expression and characterization of a recombinant yeast isoleucyl-tRNA synthetase	✓
		EMBL SEQUENCE DATA LIBRARY ACCESSION NO. A1795505, 07-04-1999, V. WALBOT, Maize ESTs from various cDNA libraries sequenced at Stanford University	✓
		EMBL SEQUENCE DATA LIBRARY ACCESSION NO. A1667309, 05-17-1999, V. WALBOT, Maize ESTs from various cDNA libraries sequenced at Stanford University	✓
		EMBL SEQUENCE DATA LIBRARY ACCESSION NO. AQ574177, 06-03-1999, R. A. WING ET AL., A BAC end sequencing framework to sequence the rice genome	✓
		EMBL SEQUENCE DATA LIBRARY ACCESSION NO. A1899999, 07-28-1999, R. SHOEMAKER ET AL., Public soybean EST project	✓
		EMBL SEQUENCE DATA LIBRARY ACCESSION NO. Z98760, 11-15-1997, J. D. SMALL ET AL., Duplicated arginyl-tRNA synthetase genes in Arabidopsis thaliana	✓

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Sheet 2 of 3

Complete if Known

Application Number	09 831.683
Filing Date	May 10, 2001
First Named Inventor	Omolayo O. Famodu
Group Art Unit	Unknown
Examiner Name	Unknown
Attorney Docket Number	BB1270 US PCT

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. 1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
		EMBL SEQUENCE DATA LIBRARY ACCESSION NO. Z98759 11-18-1997 I. D. SMALL ET AL. Duplicated arginyl-tRNA synthetase genes in Arabidopsis thaliana	✓
		DERWENT PUBLICATIONS, LTD. AN94 134720, 1994. A. JOACHIMIAK ET AL.	✓
		A. JOACHIMIAK ET AL. J. Chromatography, vol. 206 600-605, 1981. Heparin-sepharose column chromatography as a new method for the purification of aminoacyl-tRNA synthetases	✓
		DERWENT PUBLICATIONS, LTD. AN 1981-72059433. A. JOACHIMIAK ET AL. Method for isolation of aminoacyl transfer RNA synthetases EC-6.1.1. from plants purification and some properties of methionyl, phenylalanyl and arginyl transfer RNA synthetases from yellow lupine lupinus-luteus seeds	✓
		A. JOACHIMIAK ET AL. Int. J. of Biological Macromolecules, vol. 3(2) 121-128, 1981. Method for isolation of aminoacyl-tRNA synthetases from plants, purification and some properties of methionyl, phenylalanyl and arginyl tRNA synthetases from yellow lupin seeds	✓
		EMBL SEQUENCE DATA LIBRARY ACCESSION NO. AF067773 08-21-1998. I. S. DAY ET AL. Cloning of the cDNA for glutamyl-tRNA synthetase from Arabidopsis thaliana	✓
		IRENE S. DAY ET AL. Biochimica et Biophysica Acta, vol. 1099 219-224, 1998. Cloning of the cDNA for glutamyl-tRNA synthetase from Arabidopsis thaliana	✓
		EMBL SEQUENCE DATA LIBRARY ACCESSION NO. Z85984 02-13-1997 K. AKASHI ET AL. A cDNA clone encoding rice histidyl-tRNA synthetase	✓
		KINYA AKASHI ET AL. Plant Physiol., vol. 114(3) 1464, PGR97 062. A cDNA clone encoding rice histidyl-tRNA synthetase	✓
		KINYA AKASHI ET AL. FEBS Lett., vol. 431 39-44, 1998. Potential dual targeting of an Arabidopsis archaeobacterial-like histidyl-tRNA synthetase to mitochondria and chloroplasts	✓
		FREDERICK C. NEIDHART ET AL. Annu. Rev. Microbiol., vol. 29 215-250, 1975. Function and regulation of aminoacyl-tRNA synthetases in prokaryotic and eukaryotic cells	✓

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		Application Number	09 831.683
		Filing Date	May 10 2001
		First Named Inventor	Omolayo O. Famodu
		Group Art Unit	Unknown
		Examiner Name	Unknown
Sheet 3 of 3	Attorney Docket Number	BB1270 US PCT	

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
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		GILBERT ERIANI ET AL., Nature, vol. 347 203-206, 1990. Partition of tRNA synthetases into two classes based on mutually exclusive sets of sequence motifs.	✓
		ADRIAN J. LLOYD ET AL., Nucleic Acids Res., vol. 23(15) 2852-2892, 1995. A broadly applicable continuous spectrophotometric assay for measuring aminocyl-tRNA synthetase activity.	✓
		NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 2632105, 11-13-1997, I. D. SMALL ET AL., Duplicated arginyl-tRNA synthetase genes in Arabidopsis thaliana.	✓
		NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 3435196, 09-21-1998, I. S. DAY ET AL., Cloning of the cDNA for glutamyl-tRNA synthetase from Arabidopsis thaliana.	✓
		NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 2500980, 11-01-1997, R. V. ANDERSEN.	✓
		NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 2500981, 11-01-1997, R. V. ANDERSEN.	✓
		NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 2507428, 11-01-1997, A. A. TZAGOLOFF ET AL.	✓
		NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 3915070, 12-15-1998, K. AKASHI ET AL., A cDNA clone encoding rice histidyl-tRNA synthetase.	✓
		NATIONAL CENTER FOR BIOTECHNOLOGY INFORMATION GENERAL IDENTIFIER NO. 3659909, 09-28-1998, K. AKASHI ET AL., Potential dual targeting of an Arabidopsis archaeobacterial-like histidyl-tRNA synthetase to mitochondria and chloroplasts.	✓

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